

**CCR Tenth Annual CCR Fellows and Young Investigators Colloquium**  
March 17 ~ 19, 2010, Hershey Lodge in Hershey, PA

**PROGRAM**

**Wednesday, March 17, 2010**

- 1:00 p.m.      **Registration and Mentored Dinner Sign-up** (*Chocolate Lobby*)
- Poster Session I Setup** (*Trinidad Room*)
- 2:00 p.m.      **Plenary Session I** (*Aztec Room*)  
                                 *Moderators: James Gould, Ph.D. and Stephanie Watkins, Ph.D.*
- Opening Remarks and CCR-FYI Overview**  
                                 *James Gould, Ph.D., Chair, CCR FYI Steering Committee*
- FelCom Overview**  
                                 *Orla Casey, Ph.D., Cell & Cancer Biology Branch, Center for Cancer Research, NCI*
- Update on the National Postdoctoral Association**  
                                 *Stacy Gelhaus, Ph.D., University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania*
- 2:45 p.m.      **Opening Remarks from the CCR Office of Training and Education**  
                                 *Jonathan Wiest, Ph.D., Associate Director, Office of Training and Education, Center for Cancer Research, NCI*
- 3:00 p.m.      **CCR Office of the Director Address**  
                                 *Jeffrey Strathern, Ph.D., Deputy Director, Center for Cancer Research, NCI*
- 3:30 p.m.      **Postdoctoral Keynote Speaker: “Potential of Molecular Imaging to Predict the Response to Anti-HER2 Therapy”** (*Aztec Room*)  
                                 *Gabriela Kramer-Marek, Ph.D., Radiation Oncology Branch, NCI*  
                                 *Moderators: Karobi Moitra, Ph.D. and Stephanie Watkins, Ph.D.*
- 4:30 p.m.      **Keynote Speaker I: “AIDS Research: Now as Relevant as Ever”** (*Aztec Room*)  
                                 *George Pavlakis, Ph.D., Human Retrovirus Section, Vaccine Branch, NCI, Frederick, Maryland*  
                                 *Moderators: Liang Huang, Ph.D. and Stephanie Watkins, Ph.D.*
- 5:30 p.m.      **Room Keys Pickup** (*Registration Desk, Chocolate Lobby, until 10:00 p.m.*)
- 6:00 p.m.      **Dinner** (*Nigerian Room*)
- 7:30 p.m.      **Special Highlight Presentation: Cancer Survivorship** (*Aztec Room*)  
                                 *Ms. Tamika Felder, Tamika & Friends, Inc.: Together Fighting Cervical Cancer*  
                                 *Moderators: Katie Stagliano and Kimberly Shafer-Weaver, Ph.D.*
- 8:15 p.m.      **Cancer Research Advocacy Presentation: “A Case Study of a Partnership between an Advocate and a CCR Researcher”** (*Aztec Room*)  
                                 *Shannon Bell, Director, Office of Advocacy Relations, NCI*  
                                 *Moderators: Katie Stagliano and Kimberly Shafer-Weaver, Ph.D.*

8:30 p.m. **Poster Session I** (*Trinidad Room*)  
**Chemistry, Pharmacology and Structural Biology**  
**Cancer Prevention and Epidemiology**  
**Genetics, Genomics and Bioinformatics**  
**Immunology, Microbiology and Virology I**  
**Cancer Stem Cells, Molecular and Cellular Biology I**  
8:30-9:15 p.m. *Odd numbered Posters – presenter must be present*  
9:15-10:00 p.m. *Even numbered Posters – presenter must be present*

**Career Fair** (*Chocolate Lobby*)  
**Informal Mixer** (*Chocolate Lobby*)  
**Mentored Meal Sign-up** (*Registration Desk, Chocolate Lobby*)

10:00 p.m. **Adjourn**

## Thursday, March 18, 2010

7:00 a.m. **Continental Breakfast** (*Nigerian Room*)  
**Registration Open**

**Poster Session II Setup** (*Trinidad Room*)

8:30 a.m. **Keynote Speaker II: “Genes, Vaccines, and Immune Checkpoints:  
An All out Attack on Pancreatic Cancer”** (*Aztec Room*)  
*Elizabeth Jaffee, M.D., Professor, Department of Oncology,  
Johns Hopkins University School of Medicine, Baltimore, Maryland*  
*Moderators: Kimberly Shafer-Weaver, Ph.D. and Jill Ford, Ph.D.*

9:30 a.m. **Break**

10:00 a.m. **Concurrent Workshops I**

**1. Exploring Careers for the 21<sup>st</sup> Century** (*Crystal A*)  
*Tertius DeKluyver, Ph.D., Adjunct Professor of Biology, Hood College*  
*Daniel Poux, M.S., Associate Director, Science & Technology Policy Fellowships, AAAS*  
*Lorena De La Pena, Ph.D., Associate Medical Director, Harrison & Star*  
*Jonathan Jacobs, Ph.D., Scientist, MedImmune*  
*Moderators: Raed Samara, Ph.D. and Rachel DeKluyver, Ph.D.*

**2. The Job Interview: Academia vs. Industry** (*Magnolia AB*)  
*Lori Conlan, Ph.D., Director, OPS, OITE, NIH*  
*Sharon Milgram, Ph.D., Director, OITE, NIH*  
*Moderators: Karobi Moitra, Ph.D. and Rasmi Thomas, Ph.D.*

11:30 a.m. **Mentored and General Lunch** (*Nigerian Room*)

1:00 p.m. **Concurrent Oral Presentations I [order of presenters is subject to change]**

**1. Immunology, Microbiology and Virology I** (*Crystal A*)  
*Moderators: Stephanie Watkins, Ph.D. and Jill Ford, Ph.D.*

1:00 *Jill Ford, Laboratory of Experimental Immunology*  
Enhanced TREM-1 and sTREM-1 Levels in the Myeloid Cells of Tumor-Bearing Mice and Patients  
with Renal Cell Carcinoma

- 1:15 *Selinda Orr, Laboratory of Experimental Immunology*  
LAB/NTAL regulates zymosan-mediated inflammatory responses in BMDCs
- 1:30 *Natasha Fewkes, Pediatric Oncology Branch*  
IL-7R+ Dendritic Cells are Regulatory of the peripheral CD4+ T cell niche.
- 1:45 *Tim Chan, Laboratory of Experimental Immunology*  
Overcoming immune tolerance of the liver microenvironment with systemic IL-12 administration through modulation of dendritic cells
- 2:00 *Stephanie Watkins, Laboratory of Molecular Immunoregulation*  
Silencing FOXO3 in tumor associated dendritic cells reverses tolerogenicity.

## **2. Chemistry, Pharmacology and Structural Biology (Magnolia A)**

*Moderators: George Lountos, Ph.D. and Jordan Irvan, Ph.D.*

- 1:00 *Prasenjit Bhaumik, Macromolecular Crystallography Laboratory*  
Crystal Structure of Plasmeprin I (PM-I) from *Plasmodium falciparum*
- 1:15 *Ambika Bumb, Radiation Oncology Branch*  
Multi-Modal Superparamagnetic Nanoprobe: Harnessing Magnetic, Nuclear, and Optical Power for Diagnostic Imaging Applications
- 1:30 *Sheena Aris, Laboratory of Molecular Pharmacology*  
Potentiation of the novel Topoisomerase I inhibitor indenoisoquinoline NSC743400 by Chk1/2 inhibitors in p53-deficient cells
- 1:45 *Kasthuraiah Maddali, Laboratory of Molecular Pharmacology*  
Phthalimide derivatives that target raltegravir-resistant HIV-1 Integrase: A novel approach to combat HIV/AIDS
- 2:00 *Andrew Goldsborough, Laboratory of Cell Biology*  
Collateral sensitivity of multidrug resistant cells to tiopronin

## **3. Cancer Prevention and Epidemiology (Magnolia B)**

*Moderator: Marty Sklavos, Ph.D.*

- 1:00 *Brandy Heckman-Stoddard, Division of Cancer Prevention*  
Doses of selective estrogen receptor modulations (SERMS) required for prevention and therapy of chemically-induced mammary cancers
- 1:15 *Wilmarie Flores-Santana, Radiation Biology Branch*  
Modified Non-Steroidal Anti-Inflammatory drug with the SOD mimetic Nitroxide
- 1:30 *Brandon Smith, Membrane Structure and Function Section*  
Cell specific targeting of lipid-based nanoparticles for enhanced delivery of therapeutic agents
- 1:45 *Adam Waxman, Medical Oncology Branch*  
Despite Significantly Higher Incidence, Blacks with Multiple Myeloma have Better Survival than Whites: a Large-Scale Population-Based Study Including 37,977 Patients
- 2:00 *Melissa Rotunno, Genetic Epidemiology Branch*  
A gene expression signature from peripheral whole blood with prognostic implications for lung adenocarcinoma

#### **4. Genetics, Genomics and Bioinformatics** (*Magnolia C*)

*Moderators: Karobi Moitra, Ph.D. and Leslie Chinn, Ph.D.*

- 1:00 *Sichuan Xi, Surgery Branch*  
Activation of Has-miR-31 Enhances Pulmonary Carcinogenesis Mediated by Cigarette Smoke
- 1:15 *Stephanie Roessler, Laboratory of Human Carcinogenesis*  
Array-based Comparative Genomic Hybridization of Hepatocellular Carcinoma Reveals a Unique Genomic Aberration Pattern in Tumors with Poor Prognosis
- 1:30 *Xiaohui Tan, Dermatology Branch*  
Balanced 9p22q translocation in a patient with melanoma, deafness and DNA repair deficiency disrupts p14arf and down-regulates TBX1
- 1:45 *Paramita Bhattachary, Laboratory of Metabolism*  
A new function for methyl CpG: producing a CRE-like DNA binding site for C/EBP $\alpha$  critical for differentiation-induced gene expression
- 2:00 *Princy Francis, Genetics Branch*  
miRNA Expression Profiles in Sarcomas

#### **5. Cancer Stem Cells, Molecular and Cellular Biology I** (*Magnolia D*)

*Moderator: Raed Samara, Ph.D.*

- 1:00 *Marco Mineo, Medical Oncology Branch*  
Exosomes released by K562 chronic myelogenous leukemia (CML) cells induce angiogenesis in vitro
- 1:15 *Christopher Husko, Laboratory of Cancer Biology and Genetics*  
TUSC1, a Putative Tumor Suppressor Gene, Plays a Role in Regulating Autophagy
- 1:30 *John Palla, Cell and Cancer Biology Branch*  
Activation of WNT pathway in endometrial cancer stromal fibroblasts
- 1:45 *Monika Kaczmarek, Laboratory of Cancer Prevention*  
Anti-Cancer Activity of the NO Prodrug JS-K and the Role of its Arylating Ring
- 2:00 *Sandip Basu, Laboratory of Cancer Prevention*  
The 3' Untranslated Region (UTR) Suppresses Oncogenic Ras-Induced Post-Translational Activation of the C/EBP $\beta$  Protein

**CV/Résumé Critique** (*Cocoa Suite 2, until 5:30 p.m.*)

2:15 p.m. **Break**

2:45 p.m. **Concurrent Workshops II**

#### **3. Moving to Industry** (*Crystal A*)

*Matthew Sammons, Head Recruiter, Qiagen*

*Thomas Sebastian, Ph.D., Scientist, Qiagen*

*Rima Adler, Ph.D., Technical Sales Consultant, Miltenyi Biotech*

*Andy Lepisto, Ph.D., Medical Liaison, Bristol-Myers Squibb*

*Rana Al-Hallaq, Ph.D., Clinical Scientist, Forest Labs*

*Moderators: Raed Samara, Ph.D. and Michael Abram, Ph.D.*

**4. Opportunities to Build your Résumé: How to Craft Your CV (Magnolia AB)**

*David G. Taylor, Ph.D., Office of Postdoctoral Affairs, The Children's Hospital of Philadelphia*

*Richard A. Weibl, Director, Center for Careers in Science and Technology, AAAS*

*Derek Haseltine, Director of Research Career Development, University of Maryland School of Medicine*

*Moderators: James Gould, Ph.D. and Leslie Chinn, Ph.D.*

- 4:15 p.m. **Career Fair** (Chocolate Lobby, until 9:00 p.m.)
- 5:45 p.m. **General and Mentored Dinner** (Nigerian Room)
- 7:30 p.m. **Keynote Speaker III: “Fatty Acid-binding Proteins: A Link between Inflammatory and Metabolic Pathways”** (Aztec Room)  
*Jill Suttles, Ph.D., Professor, Department of Microbiology and Immunology, University of Louisville School of Medicine, Louisville, Kentucky*  
*Moderators: Stephanie Watkins, Ph.D. and Katie Stagliano*
- 8:30 p.m. **Poster Session II** (Trinidad Room)  
**Signal Transduction, Transcription, Chromatin and Structural Biology**  
**Cancer Models, Carcinogenesis and Metastasis**  
**Clinical and Translational Research**  
**Immunology, Microbiology and Virology II**  
**Cancer Stem Cells, Molecular and Cellular Biology II**  
8:30-9:15 p.m. Odd numbered Posters – presenter must be present  
9:15-10:00 p.m. Even numbered Posters – presenter must be present
- 10:00 p.m. **Adjourn**

**Friday, March 19, 2010**

- 7:00 a.m. **Continental Breakfast** (Nigerian Room)  
**Registration Open**
- 8:00 a.m. **Keynote Speaker IV: “Mice, Melanoma and Preclinical Modeling”** (Aztec Room)  
*Glenn Merlino, Ph.D., Chief, Laboratory of Cancer Biology and Genetics, Center for Cancer Research, NCI, Bethesda, Maryland*  
*Moderators: Raed Samara, Ph.D. and Tim Chan, Ph.D.*
- 9:00 a.m. **Break**
- 9:15 a.m. **Concurrent Oral Presentations II [order of presenters is subject to change]**

**6. Immunology, Microbiology and Virology II (Crystal A)**

*Moderators: Michael Abram, Ph.D. and Tim Chan, Ph.D.*

- 9:15 *Viraj Kulkarni, Vaccine Branch*  
Conserved Elements Vaccine for HIV-1 p24gag is Immunogenic in Mice and Macaques
- 9:30 *Justin Taylor, Experimental Transplantation and Immunology Branch*  
Pentostatin Facilitates Fully MHC-Disparate Murine Mini-Transplantation
- 9:45 *Shannon Larabee, Pediatric Oncology Branch*  
Absence of RAGE on bone marrow derived non-T cells abrogates GVHD after allogeneic bone marrow transplantation

- 10:00 *Poonam Tewary, Laboratory of Molecular Immunoregulation*  
Neutrophil gelatinase-associated lipocalin (NGAL): Endogenous activators of the immune system
- 10:15 *Ziqiang Zhu, Laboratory of Molecular Immunoregulation*  
Provision of CD4+ T Cell Help Preferentially Enhances Anti-tumor Immunity of High Avidity T Cells

## **7. Cancer Models, Carcinogenesis and Metastasis (Magnolia A)**

*Moderator: Orla Casey, Ph.D.*

- 9:15 *Saravana Murthy, Section on Cellular Neurobiology, NICHD*  
A Splice Variant of Obesity Susceptibility gene Carboxypeptidase E Drives Tumor Metastasis in Human Cancers
- 9:30 *Tapasree Roy Sarkar, Laboratory of Cell and Developmental Signaling*  
The Src tyrosine kinase downregulates C/EBP delta protein expression via the SIAH2 E3 ubiquitin ligase to maintain motility of breast tumor cells
- 9:45 *Balamurugan Kuppusamy, Laboratory of Cell and Developmental Signaling*  
The CCAAT/Enhancer Binding Protein delta Suppresses Mammary Tumorigenesis while also Augmenting mTOR/AKT/S6K1/HIF-1 Activity and Tumor Metastasis
- 10:00 *Anne Zhuang, Laboratory of Cancer Biology and Genetics*  
Exploring the role of keratinocyte-derived inflammation in melanomagenesis
- 10:15 *Rong Jia, HIV and AIDS Malignancy Branch*  
SRp20 in overexpression is oncogenic by disturbing genome-wide RNA splicing and transcription

## **8. Signal Transduction, Transcription, Chromatin and Structural Biology (Magnolia B)**

*Moderators: Liang Huang, Ph.D. and George Lountos, Ph.D.*

- 9:15 *George Lountos, Macromolecular Crystallography Laboratory*  
Structure-assisted Discovery of Novel Checkpoint Kinase 2 Inhibitors
- 9:30 *Shan Liu, Structural Biophysics Laboratory*  
Structural basis of interactions between the CUE Domain of an Ubiquitin Ligase gp78 and K48-linked Polyubiquitin
- 9:45 *Mahadev Rao, Surgery Branch*  
Combining the polycomb repressor complex 2 (PRC2) inhibitor 3-deazaneplanocin A with 5-Aza-2-deoxycytidine and histone deacetylase inhibitors for lung cancer therapy
- 10:00 *Stephanie Morris, Laboratory of Receptor Biology and Gene Expression*  
The Role of Chromatin Remodeling in the Activity of the Glucocorticoid Receptor
- 10:15 *Gary Lam, Laboratory of Cancer Biology and Genetics*  
EGFR-dependent modulation of cytokine-induced chemokine expression is partly mediated through a TTP-dependent mechanism

## **9. Clinical and Translational Research (Magnolia C)**

*Moderators: Katie Stagliano and Rashmi Thomas, Ph.D.*

- 9:15 *Jeremy Force, Medical Oncology Branch*  
Clinical Implications of Volumetric Analysis of Thymic Malignancies
- 9:30 *Rafal Zielinski, Radiation Oncology Branch*  
Afritoxin - A Novel Approach to HER2-targeted Therapy
- 9:45 *Yi-Ping Fu, Laboratory of Translational Genomics*

NOTCH2 in breast cancer: Association of SNP rs11249433 with gene expression in ER-positive breast tumors without p53 gene mutations

10:00 *Kristin Fabre, Radiation Biology Branch*

A novel Chk1 inhibitor sensitizes human tumor cell lines to ionizing radiation in vitro and in vivo

10:15 *Brunilde Gril, Laboratory of Molecular Pharmacology*

Pazopanib reveals B-Raf regulation of anti-angiogenesis pathways and prevents brain metastatic colonization of HER2+ breast cancer cells

## **10. Cancer Stem Cells, Molecular and Cellular Biology II (Magnolia D)**

*Moderator: Brid Ryan, Ph.D.*

9:15 *Veenu Tripathi, Laboratory of Experimental Carcinogenesis*

A specific interaction of DLC1 with  $\alpha$ -catenin stabilizes adherens junctions and regulates DLC1 oncosuppressive activity through NF $\kappa$ B signaling

9:30 *Gabriele Zoppoli, Laboratory of Molecular Pharmacology*

Integromic Analysis of the NCI-60 reveals that Chk2 Activation is associated with CDKN2A/p14ARF Overexpression in Non-melanoma, p53-mutated Tumor Cell Lines

9:45 *Xiang Yu, Cell and Cancer Biology Branch*

SatB2, targeted by miR31, is a modulator in cancer microenvironment

10:00 *Xuelian Zhao, Laboratory of Human Carcinogenesis*

NPM Phosphorylation and Pin1 in Centrosome Duplication and Cell Cycle Progression

10:15 *Brid Ryan, Laboratory of Human Carcinogenesis*

Lung cancer cells asymmetrically divide their template DNA strands during cell division

10:30 a.m. **Break**

11:00 a.m. **Concurrent Workshops III**

## **5. Science Management (Crystal A)**

*Robert Wiltrout, Ph.D., Director, CCR, NCI*

*Andy Hurwitz, Ph.D., Laboratory of Molecular Immunoregulation, CCR, NCI*

*Jill Suttles, Ph.D., Professor, Department of Microbiology and Immunology,  
University of Louisville School of Medicine*

*Robert D. Stout Ph.D., Professor and Chair, Department of Microbiology and Immunology,  
University of Louisville School of Medicine*

*Moderators: Stephanie Watkins, Ph.D. and Jill Ford, Ph.D.*

## **6. The Art of Science (Magnolia AB)**

*Nicole Kresge, Ph.D., Editor, ASBMB Today*

*Alan Rorie, Ph.D., The Exploratorium- the museum of science, art and human perception*

*Ben Dubin-Thaler, Ph.D., Cell Motion Laboratories, Inc., Columbia University Station*

*Moderators: Karobi Moitra, Ph.D. and Rasmi Thomas, Ph.D.*

12:30 p.m. **Mentored and General Lunch with Travel Awards (Nigerian Room)**

1:00 p.m. **Closing Address**

*Robert Wiltrout, Ph.D., Director, Center for Cancer Research, NCI*

1:45 p.m. **Questionnaire and Closing Comments from the Retreat Committee**

2:00 p.m. **Adjourn**

**2010 CCR Fellows and Young Investigators Retreat  
Travel Award Winners**

**Congratulations!**

**Eight \$1,000 Travel Awards**

Sponsored by the CCR Office of the Director

**Outstanding Oral Presentations**

Ambika Bumb  
Sandip Basu  
Monika Kaczmarek  
Rafel Zielinski

**Outstanding Poster Presentations**

Guy Pilkington  
Mathieu Metifiot  
Salome Viega  
John Choy